Practice Question Uploading a spring boot application to AWS Cloud

Entity.class

```
package com.rest.entity;

import jakarta.persistence.Column;
import jakarta.persistence.Entity;
import jakarta.persistence.Id;
import jakarta.persistence.Table;

@Entity
@Table(name="personangular")
public class PersonEntity {

        @Id
        @Column(name="ID")
        private long id;

        @Column(name="Name")
        private String name;

        @Column(name="Location")
        private String location;
        public long getId() {return id;
        }
        public void setId(long id) {this.id = id;
        }
        public String getName() {return name;
        }
        public void setName(String name) {this.name = name;
        }
        public String getLocation() {return location;
        }
        public void setLocation(String location) {this.location = location;
        }

        public PersonEntity() {}

        public PersonEntity(long id, String name, String location) {
                super();
                this.id = id;
                this.name = name;
                this.location = location;
        }
}
```

Controller.java

```java
package com.rest.controller;

import java.util.List;

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.web.bind.annotation.CrossOrigin;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PathVariable;
import org.springframework.web.bind.annotation.RequestBody;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RestController;

import com.rest.entity.PersonEntity;
import com.rest.service.PersonService;

@RestController
@RequestMapping(path = "/webapi")
@CrossOrigin()
public class MainController {

    @Autowired
    PersonService PersonService;

//    @RequestMapping("/all")
    @GetMapping("/all")
    public List<PersonEntity> getAllProduct(){
        return PersonService.getAllProduct();
    }

    @RequestMapping("/person/{id}")
    public PersonEntity getProduct(@PathVariable int id){
        return PersonService.getProduct(id);
    }

    @RequestMapping(method=RequestMethod.POST, value="/person")
    public void addProduct(@RequestBody PersonEntity pe ) {
        PersonService.addProduct(pe);
    }

    @RequestMapping(method=RequestMethod.PUT, value="/person/{id}")
    public void updateProduct(@PathVariable int id, @RequestBody PersonEntity pe ) {
        PersonService.updateProduct(id, pe);
    }

    @RequestMapping(method=RequestMethod.DELETE, value="/person/{id}")
    public void deleteProduct(@PathVariable int id)  {
        PersonService.deleteProduct(id);
    }
}
```

Main

package com.rest;

import org.springframework.boot.SpringApplication;
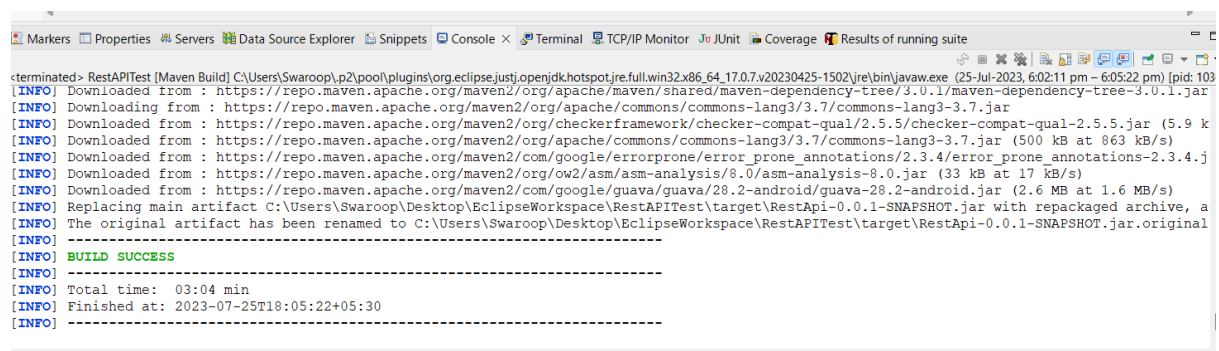import org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
public class RestApiTestApplication {

      public static void main(String[] args) {
            SpringApplication.run(RestApiTestApplication.class, args);
      }

}

1.Creating a Jar file

2.Creating A bucket with restapi2

3.Uploading the springbootapp jar file

4.After adding check with object url(if a html page exists then the output will be displayed)


```
🖹 Markers 🔲 Properties 🖧 Servers 🚡 Data Source Explorer 🗎 Snippets 🖵 Console ✕ 🎤 Terminal 🖳 TCP/IP Monitor Jᵤ JUnit 🗂 Coverage 🔃 Results of running suite
<terminated> RestAPITest [Maven Build] C:\Users\Swaroop\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.7.v20230425-1502\jre\bin\javaw.exe  (25-Jul-2023, 6:02:11 pm – 6:05:22 pm) [pid: 103
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-dependency-tree/3.0.1/maven-dependency-tree-3.0.1.jar
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/commons/commons-lang3/3.7/commons-lang3-3.7.jar
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/checkerframework/checker-compat-qual/2.5.5/checker-compat-qual-2.5.5.jar (5.9 k
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/commons/commons-lang3/3.7/commons-lang3-3.7.jar (500 kB at 863 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/com/google/errorprone/error_prone_annotations/2.3.4/error_prone_annotations-2.3.4.j
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/ow2/asm/asm-analysis/8.0/asm-analysis-8.0.jar (33 kB at 17 kB/s)
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/com/google/guava/guava/28.2-android/guava-28.2-android.jar (2.6 MB at 1.6 MB/s)
[INFO] Replacing main artifact C:\Users\Swaroop\Desktop\EclipseWorkspace\RestAPITest\target\RestApi-0.0.1-SNAPSHOT.jar with repackaged archive, a
[INFO] The original artifact has been renamed to C:\Users\Swaroop\Desktop\EclipseWorkspace\RestAPITest\target\RestApi-0.0.1-SNAPSHOT.jar.original
[INFO] ------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------
[INFO] Total time:  03:04 min
[INFO] Finished at: 2023-07-25T18:05:22+05:30
[INFO] ------------------------------------------------------------------
```

RestAPITest [boot]
- src/main/java
- src/main/resources
- src/test/java
- JRE System Library [JavaSE-17]
- Maven Dependencies
- target/generated-sources/annotations
- target/generated-test-sources/test-annotations
- src
- target
  - generated-sources
  - generated-test-sources
  - maven-archiver
  - maven-status
  - surefire-reports
  - RestApi-0.0.1-SNAPSHOT.jar
  - RestApi-0.0.1-SNAPSHOT.jar.original
- HELP.md
- mvnw
- mvnw.cmd
- pom.xml

restapi2 Info

Objects | Properties | Permissions | Metrics | Management | Access Points

Objects (0)

Objects are the fundamental entities stored in Amazon S3. You can use **Amazon S3 inventory** ⧉ to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. **Learn more** ⧉

| ↻ | Copy S3 URI | Copy URL | Download | Open ⧉ | Delete |

Actions ▼ | Create folder | ↥ Upload

🔍 Find objects by prefix

⟨ 1 ⟩ ⚙

☐	Name ▲	Type ▽	Last modified ▽	Size ▽	Storage class

No objects

You don't have any objects in this bucket.

↥ Upload

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. **Learn more** ⧉

Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.

Files and folders (1 Total, 42.6 MB)

All files and folders in this table will be uploaded.

| Remove | Add files | Add folder |

| Q Find by name | | | < **1** > |

	Name ▽	Folder ▽	Type ▽	Size ▽
☐	RestApi-0.0.1-SNAP...	-	-	42.6 MB

Destination

Destination

s3://restapi2

▶ **Destination details**
Bucket settings that impact new objects stored in the specified destination.

▶ **Permissions**
Grant public access and access to other AWS accounts.

⊘ **Upload succeeded**
View details below.

Upload: status

Close

ⓘ The information below will no longer be available after you navigate away from this page.

Summary

Destination	Succeeded	Failed
s3://restapi2	⊘ 1 file, 42.6 MB (100.00%)	⊖ 0 files, 0 B (0%)

Files and folders | Configuration

Destination	Succeeded	Failed
s3://restapi2	⊘ 1 file, 42.6 MB (100.00%)	⊖ 0 files, 0 B (0%)

Files and folders | Configuration

Files and folders (1 Total, 42.6 MB)

| Q Find by name | | | | | < 1 > |

Name ▽	Folder ▽	Type ▽	Size ▽	Status ▽	Error ▽
RestApi-0.0.1-SNAPSHOT.jar	-	-	42.6 MB	⊘ Succeeded	-

Object URL

https://restapi2.s3.us-east-2.amazonaws.com/RestApi-0.0.1-SNAPSHOT.jar